## THE CLAIMS

Claims 1-41 are pending in the instant application. The Applicant requests reconsideration of the claims in view of the following remarks.

## Listing of claims:

1. (Original) A method for secure key authentication, the method comprising:

generating at a first location a digital signature of a secure key to obtain a digitally signed secure key; and

transmitting the digitally signed secure key from the first location.

- 2. (Previously Presented) The method according to claim 1, comprising generating the digital signature from at least one of an asymmetric encryption algorithm and a symmetric encryption algorithm.
- 3. (Previously Presented) The method according to claim 1, comprising encrypting the digitally signed secure key prior to transmission to obtain an encrypted digitally signed key.

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- 4. (Original) The method according to claim 3, wherein the secure key comprises at least one of a master key, a work key and a scrambling key.
- 5. (Previously Presented) The method according to claim 4, comprising: receiving the digitally signed secure key at a second location; and decrypting the digitally signed secure key to obtain a decrypted digitally signed secure key.
- 6. (Previously Presented) The method according to claim 5, wherein if the secure key comprises a work key, then a decrypted digitally signed master key at the second location is utilized for decrypting an encrypted digitally signed work key.
- 7. (Previously Presented) The method according to claim 5, wherein if the secure key comprises a scrambling key, then a decrypted digitally signed work key at the second location is utilized for decrypting an encrypted digitally signed scrambling key.
- 8. (Previously Presented) The method according to claim 5, comprising verifying authenticity of the digital signature of the digitally signed secure key.

- 9. (Previously Presented) The method according to claim 8, comprising verifying the authenticity of the digital signature utilizing at least one of an asymmetric decryption algorithm and a symmetric decryption algorithm.
- 10. (Previously Presented) The method according to claim 8, comprising determining whether to verify authenticity of the digital signature.
- 11. (Previously Presented) A computer-readable medium having stored thereon, a computer program having at least one code section for secure key authentication, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

generating at a first location a digital signature of a secure key to obtain a digitally signed secure key; and

transmitting the digitally signed secure key from the first location.

12. (Previously Presented) The computer-readable medium according to claim 11, comprising code for generating the digital signature from at least one of an asymmetric encryption algorithm and a symmetric encryption algorithm.

- 13. (Previously Presented) The computer-readable medium according to claim 11, comprising code for encrypting the digitally signed secure key prior to transmission to obtain an encrypted digitally signed key.
- 14. (Previously Presented) The computer-readable medium according to claim 13, wherein the secure key comprises at least one of a master key, a work key and a scrambling key.
- 15. (Previously Presented) The computer-readable medium according to claim 14, comprising:

code for receiving the digitally signed secure key at a second location; and code for decrypting the digitally signed secure key to obtain a decrypted digitally signed secure key.

- 16. (Previously Presented) The computer-readable medium according to claim 15, wherein if the secure key comprises a work key, then a decrypted digitally signed master key at the second location is utilized for decrypting an encrypted digitally signed work key.
- 17. (Previously Presented) The computer-readable medium according to claim 15, wherein if the secure key comprises a scrambling key, then a decrypted

digitally signed work key at the second location is utilized for decrypting an encrypted digitally signed scrambling key.

- 18. (Previously Presented) The computer-readable medium according to claim 15, comprising code for verifying authenticity of the digital signature of the digitally signed secure key.
- 19. (Previously Presented) The computer-readable medium according to claim 18, comprising code for verifying the authenticity of the digital signature utilizing at least one of an asymmetric decryption algorithm and a symmetric decryption algorithm.
- 20. (Previously Presented) The computer-readable medium according to claim 18, comprising code for determining whether to verify authenticity of the digital signature.
- 21. (Original) A system for secure key authentication, the system comprising:

at least one processor for generating at a first location a digital signature of a secure key to obtain a digitally signed secure key; and the at least one processor transmitting the digitally signed secure key from the first location.

- 22. (Original) The system according to claim 21, the at least one processor generating the digital signature from at least one of an asymmetric encryption algorithm and a symmetric encryption algorithm.
- 23. (Original) The system according to claim 21, the at least one processor encrypting the digitally signed secure key prior to transmission to obtain an encrypted digitally signed key.
- 24. (Original) The system according to claim 23, wherein the secure key comprises at least one of a master key, a work key and a scrambling key.
- 25. (Original) The system according to claim 24, the at least one processor: receiving the digitally signed secure key at a second location; and decrypting the digitally signed secure key to obtain a decrypted digitally signed secure key.

- 26. (Original) The system according to claim 25, wherein a decrypted digitally signed master key at the second location is utilized for decrypting an encrypted digitally signed work key.
- 27. (Original) The system according to claim 25, wherein a decrypted digitally signed work key at the second location is utilized for decrypting an encrypted digitally signed scrambling key.
- 28. (Original) The system according to claim 25, the at least one processor verifying authenticity of the digital signature of the digitally signed secure key.
- 29. (Original) The system according to claim 28, the at least one processor verifying the authenticity of the digital signature utilizing at least one of an asymmetric decryption algorithm and a symmetric decryption algorithm.
- 30. (Original) The system according to claim 28, the at least one processor determining whether to verify authenticity of the digital signature.
- 31. (Original) The system according to claim 21, wherein the at least one processor comprises at least one of a host processor, a microprocessor, and a microcontroller.

32. (Original) A system for secure key authentication, the system comprising:

a transmitter;

the transmitter comprises a generator that generates a digital signature of a secure key to obtain a digitally signed secure key; and

the transmitter transmits the digitally signed secure key.

- 33. (Original) The system according to claim 32, wherein the generator generates the digital signature from at least one of an asymmetric encryption algorithm and a symmetric encryption algorithm.
- 34. (Previously Presented) system according to claim 32, comprising an encryptor that encrypts the digitally signed secure key prior to transmission to obtain an encrypted digitally signed key.
- 35. (Original) The system according to claim 34, wherein the secure key comprises at least one of a master key, a work key and a scrambling key.
  - 36. (Previously Presented) The system according to claim 35, comprising: a receiver that receives the digitally signed secure key; and

the receiver comprising a decryptor that decrypts the digitally signed secure key to obtain a decrypted digitally signed secure key.

- 37. (Original) The system according to claim 36, wherein the receiver comprises a decryptor that utilizes a digitally signed master key to decrypt an encrypted digitally signed work key.
- 38. (Original) The system according to claim 36, wherein the decryptor utilizes a decrypted digitally signed work key to decrypt an encrypted digitally signed scrambling key.
- 39. (Original) The system according to claim 36, the receiver comprises a verifier that verifies authenticity of the digital signature of the digitally signed secure key.
- 40. (Original) The system according to claim 39, wherein the verifier utilizes at least one of an asymmetric decryption algorithm and a symmetric decryption algorithm.
- 41. (Original) The system according to claim 39, wherein the verifier determines whether to verify authenticity of the digital signature.